of said smoothed surface is 0.03 um or less.

- 4. A reflector made of glass for a projector according to Claim 1, wherein said opening is smoothed by applying a flame by a burner and the mean roughness of said smoothed surface is 0.03 μ m or less.
- 5. A reflector made of glass for a projector according to Claim 4, wherein said reflective surface is in a shape of a rotational elliptical surface or a rotational parabolic surface and the surface accuracy in the neighborhood of said opening is less than $\pm 20~\mu m$ for an ideal curved surface.
 - 6. A reflector made of glass for a projector according to Claim 1, wherein said opening is smoothed by radiation of a laser beam.

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7. A reflector made of glass for a projector according to Claim 6, wherein said reflective surface is in a shape of a rotational elliptical surface or a rotational parabolic surface and the surface accuracy in the neighborhood of said opening is less than $\pm 20~\mu m$ for an ideal curved surface.

8. A reflector made of glass for a projector comprising amorphous glass having a thermal expansion coefficient of 30 to 40 x 10^{-7} /°C and including a reflective surface for reflecting light emitted from a light source and an opening for inserting a light source bulb or a conductor to said light source bulb, wherein: said opening is smoothed by applying a flame to the surface thereof by a burner after opening-drilling and the mean roughness of said smoothed surface is 0.03 μ m or less.

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- 9. A reflector made of glass for a projector according to Claim 8, wherein said reflective surface is in a shape of a rotational elliptical surface or a rotational parabolic surface and the surface accuracy in the neighborhood of said opening is less than $\pm 20~\mu m$ for an ideal curved surface.
 - 10. A manufacturing method for a reflector made of glass for a projector having a reflective surface for reflecting light emitted from a light source and an opening for inserting a light source bulb or a conductor to said light source bulb, comprising:

the press-molding step of press-molding molten glass in a predetermined reflector shape by a mold having a bottom mold and a plunger,

the opening forming step of forming said opening by removing glass at the part touching said opening of said reflector formed at said pressmolding step, and

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the surface smoothing step of heat-treating said opening formed at said opening forming step to smooth the surface thereof, thereby removing mechanical damage from the processed part.

- 11. A manufacturing method for a reflector made of glass for a projector according to Claim 10, wherein said opening forming step heats said part touching said opening and then forms said opening by punching from the side of said reflective surface.
- 20 12. A manufacturing method for a reflector made of glass for a projector according to Claim 10, wherein said opening forming step forms said opening by a drill from the side of said reflective surface.

13. A manufacturing method for a reflector made of glass for a projector according to Claim 10,

wherein said opening forming step forms said opening by cutting said part touching said opening.

14. A manufacturing method for a reflector made of glass for a projector according to Claim 10, wherein said surface smoothing step smoothes said surface by applying a flame to said opening so that the mean roughness of said surface becomes 0.03 μ m or less.

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15. A manufacturing method for a reflector made of glass for a projector according to Claim 10, wherein said surface smoothing step smoothes said surface by radiating a laser beam to said opening.